

Amendments to the Claims

1. (Canceled).
2. (Currently amended). A method of monitoring the effect of *in vivo* administration of a cathepsin S inhibitor to a subject, comprising the steps of:
 - a) taking a blood sample of the subject;
 - b) purifying the white blood cells from said sample;
 - c) making whole cell lysates of the purified white blood cells; and
 - d) analyzing the lysates for presence of a p10Ii fragment of invariant chain (Ii) by a suitable assay method, wherein the presence of said p10Ii fragment represents a block in degradation of the invariant chain due to inhibition of cathepsin S resulting from the *in vivo* administration of the cathepsin S inhibitor.
3. (Previously presented). A method of monitoring the effect of *in vivo* administration of a cathepsin S inhibitor to a subject as defined in claim 2 wherein the suitable assay method in step (d) is Western blotting or enzyme-linked immunosorbent assay.
4. (Previously presented). A method of monitoring the effect of *in vivo* administration of a cathepsin S inhibitor to a subject as defined in claim 2 wherein the subject is a human.

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